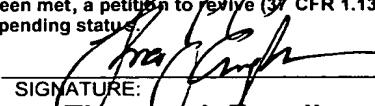


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 5363-3259 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 107536810
INTERNATIONAL APPLICATION NO. PCT/US2003/037775	INTERNATIONAL FILING DATE 26 November 2003 (26.11.2003)	PRIORITY DATE CLAIMED 27 November 2002 (27.11.2002)
TITLE OF INVENTION ANTIOXIDANT-FUNCTIONALIZED POLYMERS		
APPLICANT(S) FOR DO/EO/US David L. KAPLAN and Amarjit SINGH		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment (10 sheets)</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: Transmittal Letter (2 sheets in duplicate); copy of Form PCT/IB/308 (1 sheet); PCT Invitation to Pay Additional Fees (5 sheets); PCT International Published Application (WO 2004/050795) (without International Search Report) (76 sheets); copy of Cover sheet of PCT International Published Application (WO 2004/050795) (with International Search Report) (6 sheets); Certificate of Express Mailing (1 sheet); Check (\$1675) based on SMALL entity; and Return Postcard</p>		

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U.S. APPLICATION NO. (if known, see 37 CFR 1.7)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER								
10/536810	PCT/US2003/037775	5363-3259								
The following fees have been submitted										
21. <input checked="" type="checkbox"/> Basic national fee \$300										
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$100 All other situations \$200										
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared and provided to the Office \$400 All other situations \$500										
TOTAL OF 21, 22 and 23 = \$ 1,000.00										
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. <table border="1"> <tr> <th>Total Sheets</th> <th>Extra sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250.00</td> </tr> </table>			Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	/50 =		x \$250.00
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE							
- 100 =	/50 =		x \$250.00							
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).										
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE							
Total claims	51 - 20 =	31	x 50.00							
Independent claims	7 - 3 =	4	x 200.00							
MULTIPLE DEPENDENT CLAIM(s) (if applicable)			+							
TOTAL OF ABOVE CALCULATIONS =			\$ 3,350.00							
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.			\$ 1,675.00							
SUBTOTAL =			\$ 1,675.00							
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).			+							
TOTAL NATIONAL FEE =			\$ 1,675.00							
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property			+							
TOTAL FEES ENCLOSED =			\$ 1,675.00							
			Amount to be refunded: \$							
			Amount to be charged: \$							
<p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,675.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>141449</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p>										
SEND ALL CORRESPONDENCE TO:										
Thomas J. Engellenner NUTTER MCCLENNEN & FISH LLP World Trade Center West 155 Seaport Boulevard Boston, Massachusetts 02210-2604 (617) 439-2000										
 SIGNATURE: Thomas J. Engellenner NAME										
28,711 REGISTRATION NUMBER										

UNITED STATES PATENT OFFICE

10/536810
JC13 Rec'd PCT/PTO 27 MAY 2005

Applicant(s): **David L. KAPLAN and Amarjit SINGH**
Application No: **Not yet Assigned**
Filed: **Herewith**
Entitled: **ANTIODIDANT-FUNCTIONALIZED POLYMERS**
Agent's File Reference: **5363-3259**

Certification under 37 CFR 1.10

Attention Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service using "Express Mail Post Office to Addressee" service, Mailing Label No. **EV 323 624 838 US**, under 37 CFR 1.10 on the date indicated below and addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450:

- (1) Transmittal Letter (2 sheets in duplicate);
- (2) Preliminary Amendment (10 sheets);
- (3) Copy of Form PCT/IB/308 (1 sheets);
- (4) Copy of PCT Invitation to Pay Additional Fees (5 sheets);
- (5) Copy of PCT International Published Application (WO 2004/050795)
(without International Search Report attached) (76 sheets);
- (6) Copy of Cover sheet of PCT International Published Application (WO 2004/050795)
(with International Search Report) (6 sheets);
- (7) Check (\$1675) based on SMALL entity status;
- (8) Certificate of Express mailing (1 sheet); and
- (9) Return Postcard.

27 May 2005

Date

Name: Thomas J. Engellenner